

M.Sc. III Semester ATKT

BOTANY Open Book Exam. December - 2020

Saijā Science college Bhopal

Paper - I (Systematic of Angiosperms)

Max. Marks: 85

Min. Marks: 31

Note:— Attempt all questions are compulsory.

- Q.1. Describe the morphology of stamens and Carpals.
- Q.2. Explain the "Taxonomic tools" and their importance.
- Q.3. Discuss the concept of phylogenetic classification system.
- Q.4. Describe the family papaveraceae with floral diagram.
- Q.5. Describe the family acanthaceae in detail.

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Paper - II (Molecular Biology and Plant-  
Breeding)

Max. Marks: 85

Min Marks: 31

Note:— Attempt all the questions are compulsory.

- Q.1. Describe the process of DNA replication.
- Q.2. Explain recombination in phages.
- Q.3. Write the mechanism of protein synthesis in a cell.
- Q.4. What is RNA processing? Give examples.
- Q.5. Write an essay on "Plant breeding."

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Paper. III (Plant Physiology Biochemistry  
and Metabolism.)

Max. Marks: 85

Min. Marks: 31

Note:— Attempt all the questions are compulsory.

- Q.1. Explain the structure classification and biological significance of Enzymes.
- Q.2. Describe the biochemical reaction taking place during the dark phase of photosynthesis.
- Q.3. Production of ATP in respiration.
- Q.4. Explain the classification of carbohydrate.
- Q.5. Discuss the chemical and biological nitrogen fixation.

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Paper: IV (Ecology - II)

(Conser. & Utiliza. of plant Resources.)

Max. Marks: 85

Min. Marks: 31

Note:- Attempt all the questions are compulsory.

- Q.1. Describe "Bio-diversity"
- Q.2. Write an essay on Non-wood forest product.
- Q.3. Discuss on sustainable development and Utilization of forest resources.
- Q.4. Environmental pollution is increased by modernization? Prove this statement
- Q.5. What is green house effect. Describe to green house gases.